

451-473

ALWAYS BRING THIS BOOK.



Mr H. G. Dyar.

IN ACCOUNT WITH

J. L. TREMPER,

DEALER IN

CHOICE BEEF,

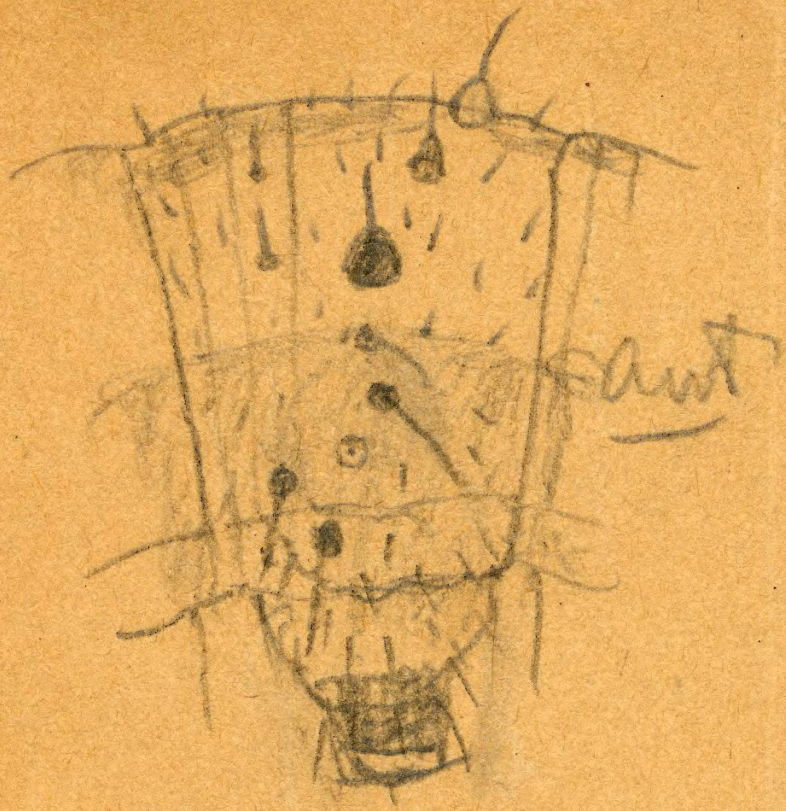
Mutton, Lamb, Veal, Pork,

HAMS, BACON, CORNED BEEF,

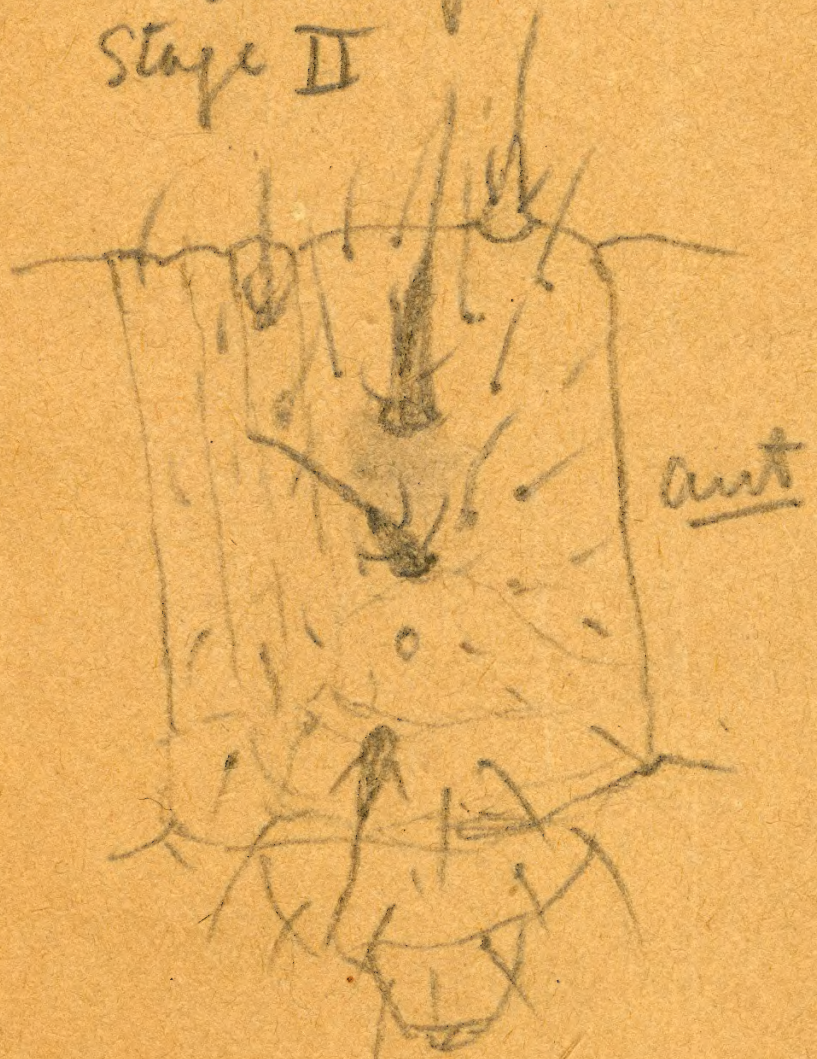
Tongues, &c.

POULTRY AND GAME

IN SEASON.



Vanessa antiopa
Stage II



Stage III

July 3	3 ¹ / ₂ Duck 25	88
7	9 ¹ / ₂ Lamb 25	231
11	2 ¹ / ₂ Ohsp 25	63
	2 ¹ / ₂ Duck 25	56
14	8 ¹ / ₄ Beef 25	219
17	2 Duck 25	50
	1 ¹ / ₂ But 20	35
25	8 Lamb 20	160
28	10 ¹ / ₂ O Beef 16	168
	4 Duck 25	100
		<hr/>
		11.70

Frid Aug 6.90



J. L. Thompson

Ant

Fls.

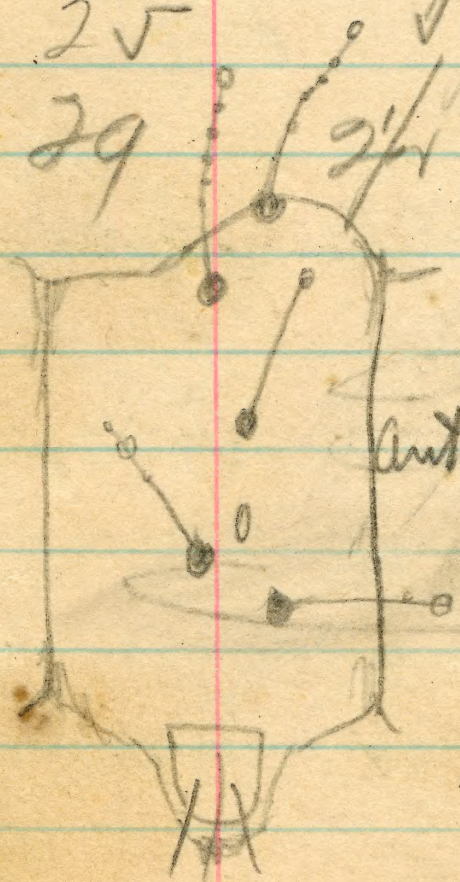
Cheppia defuncta St I

Keene Valley, N. Y.

June 24, 1894

Aug 1 1 1/2 for Oct 5 2v 38
 1 1/2 for Oct 5 2v 44
 4 7 for Oct 5 2v 1 88
 6 1 1/2 for Oct 5 2v 38
 8 2 for Oct 5 2v 50
 1 1/2 for Oct 5 2v 38
 11 2 for Oct 5 2v 50
 12 2 for Oct 5 2v 50

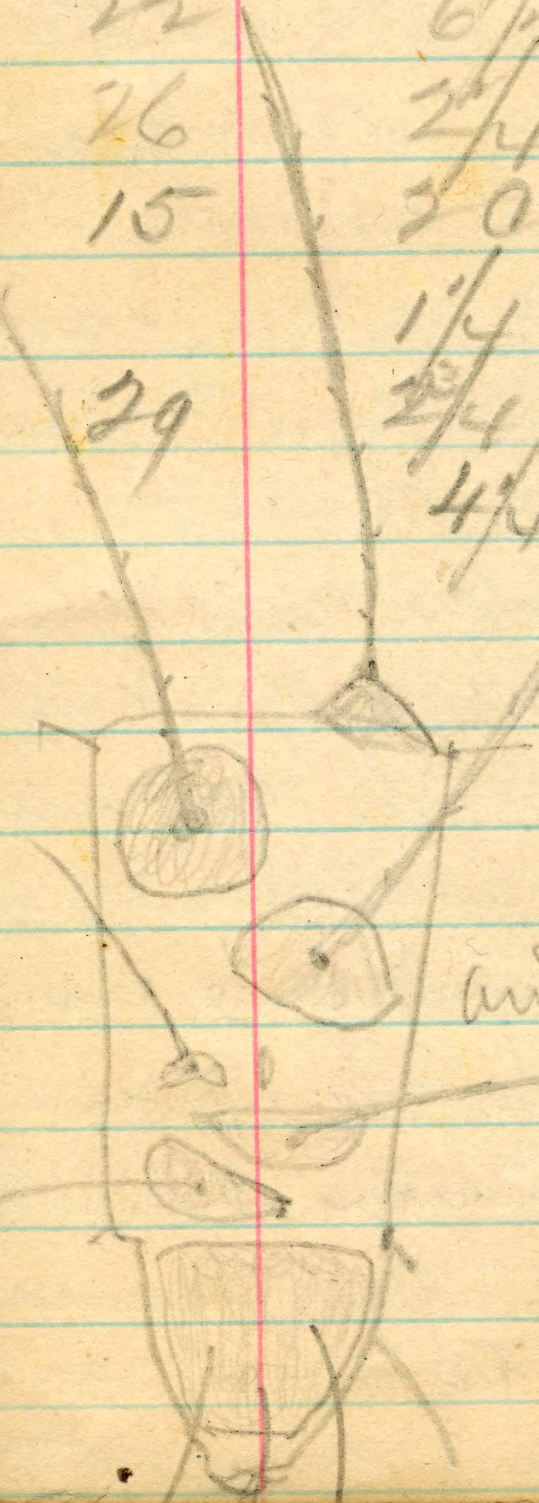
15 5 for Oct 5 2v 1 10
 18 2 for Oct 5 2v 50
 1 1/2 for Oct 5 2v 44
 22 2 1/2 for Oct 5 2v 56
 25 1 1/2 for Oct 5 2v 1 16
 29 2 1/2 for Oct 5 2v 63



Ant segment of *Schizura unicornis* stage I on hazel, Keene Valley, N.Y. June 26, 1894 (See BB 391)

(452)

Sept 1 6 1/2 for Oct 5 2v 1 38
 5 1 1/2 for Oct 5 2v 38
 8 2 1/2 for Oct 5 2v 69
 1 1/2 for Oct 5 2v 25
 2 for Oct 5 2v 50
 1 1/2 for Oct 5 2v 1 26
 19 6 1/2 for Oct 5 2v 1 30
 22 6 1/2 for Oct 5 2v 1 43
 26 2 1/2 for Oct 5 2v 50
 15 3 for Oct 5 2v 40
 29 1 1/2 for Oct 5 2v 31
 2 1/2 for Oct 5 2v 69
 4 1/2 for Oct 5 2v 60
 9 69



Cluscha virginica hatched from ant. yellow *Spilosoma* like egg on a bush, Keene Valley, N.Y. June 23, 1894 BB 452

Blue Book

451

Eggs of *Hyperaspis aurora* on oak from
Mr. J. Doll recd June 22, 1898. Nearly
spherical but with flattened base
slightly shiny, covered with narrow
regular hexagonal reticulation
which become smaller at microp.
and faint, with minute bristles
at the punctum (use higher power) d. 9m
Hatched June 23 Hd rounded, a little
bulging at ocelli and vertex of each
lobe, pale brown shiny. w.
bases of, enlarged, forming slight
bumps on 5 and 12, setae long
pale glandular with drops at tip.
Body translucent yellowish feet all
dark red brown the anal ones
elevated. Most of lateral area and
the whole of 5, 8 and 12 red brown
Setae with large chitinous brownish
bases, i on ant of its fleshy en-
largement, normal, iv post s-s
x ant, (vi absent), chitinous leg plate

a tubercle at vertex
of each lobe

Panicle raised but go on with to molt
Hatched June 26 Hd as in *ipomoeae* (BBS
398 II) the tarsi broad, rather light
brown, reducing the ground to rounded
spots. Tubercles i as in *ipomoeae*, much
with fuscate tips, but only one limb
bears a seta; ii scarcely enlarged,
other normal. vi present, s-v post,
about 8 setae on leg plate, i on 5, 7
(9-10 small) and 12 black; on 3, 4, 6, 8
11 & 13 yellow, the color extending
onto these segs. esp. 2 & 4 but laterally
on 11 & 13. The rest purplish brown
faintly mottled with paler. Bases of the
feet and foot on 7 dark; the feet
and feet 8-10 & 13 very pale. Tubercles
ii and v pale except on 5 and 7. Setae
brown glandular. Anal feet elevated
Towards end of stage the dorsal region becomes
darker than the lateral forming a band
widening on 5, 7, 9-10 and 12. Sides of
2-4 dotted with bright white
Tips of anal feet yellow.

the large one often white tipped

Molt June 30 Red slightly lobed higher than wide. Tubercles as before but rather small. Pale yellowish, the ventral band on angle of lobe most distinct the other enclosing light yellow patches on median suture and giving the appearance of a coarse reticulation connecting the bands and repeated on side of head; bands all red-brown finely mottled with yellow. W. $1.5 \pm$ Tubercles: enlarged (protruded), the tip furcate, one limb (usually the shorter one) bearing the long glandular seta, ii scarcely enlarged, the rest normal. On 5 & 12 there are slight humps and on 9-11 the i is less enlarged than others. Color purplish brown, finely mottled. Setae of 3-4 pale and dorsal region darker the darker shade incised by a series of bright yellow triangular patches including i and ii on joint 3, 4, 6, 8 (running on 9) 11 and 13

the one on 11 also encloses the hind with yellow spots ^{on 5, 11} and the whole runs to imperfectly bordered with yellow or white the border extending to anal feet feet and venter brown the feet lined with brown. Tubercles mostly white or whitish except in dorsal band setae dark, distinct, glandular.

Molt July 13 Same as first (desc July 17) It rounded, higher than wide but not above 2 not retracted, not lobed but suture rather deep. W. 3 mm. Same white with a yellow but reticulated with white bands of purple brown a band one running from antenna to top of each lobe. Prolegs printed d. 5 & 12 tubercles i then red. large & conspicuous, elsewhere very small though i on 6-8 is white and rather distinct; all other tubercles inconspicuous, setae dark moderately long. Venter & legs purple brown dotted with white; sides whitish green finely dotted with white & brown the and shading into a bright large. very very green, becoming yellowish green on sides of 2-4, the enlarged tubercles on 5 and 12 tinged with red. a dark brown d. band, on 2-3; begins again on 5 and runs to 12, slightly incised on 6, 8 and 11 and tubercles i and ii then merged

with yellow spots "and" the whole same
is imperfectly bordered with yellow or
white, the border extending to anal
feet feet and venter brown, the feet
lined with brown. Tubercles small,
white or whitish except in dorsal band
setae dark, distinct, glandular,

Molt July 13 Same as first (Desc July 17)
 rounded, higher than wide but not
 above 2 nor retracted, not lobed but
 suture rather deep. w. 3 mm. Ground white
 with a yellow but reticulated with white
 bands of purple brown a broad one running
 from antenna to top of each lobe. Body
 punctured d. 5-12 tubercles; other red.
 large & conspicuous, elsewhere very
 small though in 6-8 is white, and
 auto-distant; all other tubercles mean
 specimens, setae dark moderate long
 venter & legs purple brown dotted
 with white; sides whitish green
 finely dotted with white & brown
 and shading into a lighter

green on 2-4. On 2-3 a d. purple
horn band, white dotted, bordered
with yellow. On 5 a white sd
band marked with fine irregular
purple brown lines begin at tubercle,
loops up to i on 12 and run to
anal foot. The d. space then evened
is bright dark yellowish leaf green
dotted with white with narrow
white d. line indistinct. i on 6 is
marked by a little white patch and
there is a Δ enlargement. sd. line on 8
Anal feet pale outwardly, not used.
slender, gently divergent
[Dorsal of air and on side of its body become
not giving a strong odor of HCl]
Some do not lose all the d. down
which remain in varying patches
Turned black to J July 22-24

the longer one often white tipped

~~July~~ June 30 Red slightly bilobed higher than wide, tubercles as before but rather small. Pale yellowish, the ventral band on angle of lobe most distinct the other enclosing bright yellow patches on median suture and giving the appearance of a coarse reticulation connecting the bands and repeated on sides of head; bands all red-brown finely mottled with yellow. W. 1.5±
tubercles enlarged (protruded), the tip furcate, one limb (usually the shorter one) bearing the long glandular seta, ii scarcely enlarged, the rest normal. On 8 & 9 there are slight humps and on 9-11 the i is less enlarged than others. Color purplish brown, finely mottled, sides of 3-4 pale and dorsal region darker the darker shade incised by a series of bright yellow triangular patches including i and ii on joints 3, 4, 6, 8 (running on 9) 11 and 13

the one on 11 also enclosing the spiracle. Feet pale, various tinged, those on 8 & 9 a little paler than the others. Palps elevated. Setae dark, glandular. Little later the sides of 2-4 become green. The green appears first in the yellow shade next the horn d. line and shades downward. It also appears at the sides of 11 and 12-13. Whole lateral region becomes paler brown. Setae very distinctly glandular.
~~July~~ July 5 Same as before, setae still glandular but not very pronouncedly. Not all have the greenish shading.
July 8. Hd higher than wide, elliptical, rounded suture not deep, pale yellow with vertical brown red brown bands on each lobe mottled with paler, the space between and behind bands reticulated with red brown lines. W. mm. Setae from tubercles the 2 at apex & below on each lobe especially large. Body leaf green, becoming yellowish green on sides of 2-4, the enlarged tubercles on 5 and 12 tinged with red. A dark brown d. band, on 2-5; begins again on 5 and runs to 12, slightly incised on 6, 8 and 11 and tubercles i and ii then unmarked

[a *Chordea virginica* laid
eggs just like these on
June 24

Eudromia 452 Laid in a batch of eggs little separated
eggs on leaf which they
would not eat, but ate grass.

Rounded conical, higher than
hemispherical, base flat, diam. 8
height .7 mm color bright yellow
Surface finely hexagonal reticulate
rather evenly and not much
smaller at the top. Scales shiny

Hatched June 23 (see sketch for hatch
cler. vi present!!) Hd shiny black,
becoming pale below eyes. w. 4±
Body white, tubercles large black
with single long hairs, black, as
also all the feet.

Wt July 27 Vents many haired,
the hair spinulose, long overhanging
the extremities. Body pale, hd
and vent. black; a brown d and
superstij. stripe. Hair dark
a single very large transverse elongate
vent 8d on 3 and 4; iv and v
small, vi large, a lot of hairs

with distinct tubercles on leg.
Wt July 1 Hd shiny black, body
pale yellowish with brown broken
d. and s-v shadings. Vents
blackish hair long, rather
fine black & white mixed some
longer overhanging the hairs.

Wt July 7 (Hatched 75+) Hd shiny black
w 1±, Body appears grayish black but
is really considerably mottled with
pale surrounding the vents and in
irregular transverse streaks. Hair thick
yellowish centrally black and white
mixed at the extremities, long and
overhanging some rather close
erect black hair arise from 1 on
5 and 12

Wt July 14 Body black with sd and
lateral white line. Hair same but
longer, pencils on 5 and 12 more
distinct

Wt July 23 Same. sd white line
narrow and broken.

~~not~~ Aug 4 Besides the long black
pencil at 4 and 12 there is a row
of short ones from 1 to 6-11 not
longer than the other hair. Other
hair 5-12 yellow, pale 3-4. On
2-4 and 13 nearly white, mixed
with a few black ones. Head normal,
iv. small, shiny front. Body black, a
distinct white ^{derogate at ends} sub-sty.
white band (crossing II and V). Vant
black, feet rather pale, hair barbed

~~not~~ Aug 18 Same as before. The hair
on the ends appears gray, being
black and white about equally
mixed. (Sh) hd 2.0 mm. 1.9.

~~not~~ Sept 1 hd shiny black, labrum pale
red black with sd & ss white bands
as before. D tufts 5-12 nearly all same
length. Dors 5 & 12 only a little
longer, the others being ^{and longer than the other hair.} relatively
longer than before. Hair 1 & 11 except
the tufts 5-12 yellow; all the
rest gray (black & white mixed).

(Sh) hd 2.25
the 3-4 hair not yellow as before
fading into vinous red on the front,
spiral & the lobes on sides and above
~~not~~ Sept 19 Hd 2.4± Same red on hd a
little more extensive; ant. not changed
3-4 hairs darker, largely black,
~~not~~ Oct 12 Hd 2.5± As before. Head
behind black in front.

453.


Succinimera ocellatus eggs from Dr. Chapman, England. Egg elliptical flattened above and below (see also below). Hatched June 22 Pale greenish with red horn thickly covered with minute spile with furcate tips (see also below). Hd rounded pale green with a yellowish line each side to vertex. Cells black. Body brownish yellowish green thickly dotted with white. White in the 8 annulets also forming a sd line distinct and, but faint on abd segs replaced by the 7 oblique lateral lines which almost meet dorsally. Horn red, pilose. The feet & palpi pale with reddish tips. Hd. 9+ horn 1mm. Molt June 25 Hd high pointed above terminal in 2 contiguous tubercles from which a pale line runs down the angles, green covered with white granulation. Ocelli black. 12 ±

Body green, covered with white granules with pale red and oblique lateral lines also granular. Horn red except at base. Under each conical granulation is a transparent Y shaped seta but those on hd have no Y but swollen ends. Molt June 29 Hd same vertical line pale yellow. 8d line confined to thorax, the granulation on it and the oblique line longer than those elsewhere making these white line also raised. Each conical white tubercle still bears a Y shaped seta but small and the bristles short. Horn on the dorsally granular horn also Y's but not on the head. Molt July 4 Hd same line as width of one granulation. Tubercles at apex red. Body same concolorous, all green the white in the body, lines whitish. Granulation

with a minute blunt simple seta
at apex. Some of the smaller ones
with longer pectate setae but few
5-6 mm long white, yellowish on thorax
Washed July 13 All granular but no
setae, granulation coarsened. Hd
circular in outline, the red points
absent. Oblique lines white
preceded by green shades, the one
on horn faint purplish. The feet
reddish, yellow at base. Spines
white with dark red border.
A narrow yellow line on 2 of head.
and faint on back of anal plate.
Horn long, conical, slightly
curved backward. Hd 5 mm ±
horn bluish. D. region more yellowish
than S-V.

hatched July 26

454

Egg singly on upper side of raspberry
leaf Kern Valley N.Y. June 24 1894
Hd at base, rounded above, not
 shiny, diam. 7, length 4 mm
micropyle pitted, small, with
a high sharp raised ridge
surrounding it from which radiate
10 similar ridges, regularly spaced
and joined at the angles by
cross ridges forming hexagonal cells
with high ridges. The primary
ridge straight for about 3 angles
and are then interpolated by secondary
ones so that there are 20 ribs on
the side, each reticulated as
described. Color white, a red horn
blotch at apex and an annular
concentric band above the middle
the edges of both rather irregular
Hatched June 27 Rapidly, looking
like noctuids, whitish
colorless, all over red for

and $\frac{3}{4}$ from center of al. canal
tubercles normal, iv stig. post.
v sv and (vi absent) 2 setae on
base of leg. black, slightly
elevated with long distinct
dark setae, taper pointed
anteriorly. Feet all present, but
the 2nd pair abd legs are
smaller than the others joint
is quite thick. Hd pale brownish
ocelli 6, black, a few hairs.

July 12 Setae normal, black
vi present, iv stig post, perfect
normal single. Greenish white
opaque not shiny, 2nd pair
abd feet much smaller than
the others. No marks except a
faint dusky superst. line
just a d and lat broken white
line. Hd 5+ 12 not with a great
hump so that it looks
like head end. 2nd pair of
feet much smaller than

green tubercles minute black.
July 13 Green, a blackish stig,
shaded edged white below with
trace of d and s-d white lines.
Eye black mouth brown. 12 enlarged
joint feet on 7th small (Hd 0.8)
July 16 Hd green eye black. w. 1.3+
red green, tubercles, d. s-d and
stig. line narrow white and broken
by a blackish shade, the s-d i stig
line on upper side only. s-d line under
late. oth 13 feet 1 pair clear green
2nd abd feet still smaller but a little
July 22 Same joint Hd 1.8+ parts
under 2, present. Head
mouth, in the labes. Red soft
green, an obscure white line stig
line. Irregular, another smoky
irregular border line and color
on surface, becoming prominent as other
line between d & s-d line (s-d line with
slight s-v. 2nd antennae tiny
12 a little enlarged. Feet normal (July 5)

454 B wine red noctuid on blackberry, eating
 flowers. Pupula wine red. hd with a
 brownish ^{shiny} ~~trans~~ ^{line}. tubercles white
 & distinct. 8d narrow. No. 10
 sty. again distinct. White dots
 of tubercles small with a few
 fainter supplementary ones. The
 feet blackish, abd. white. (2) (Shhd 1.6)
 scarcely enlarged, last 13 small. Hd 2.5
 July 4 hd 2.5 = Same hd with black
 shade before. The feet black

454 ~~WV~~ Aug (Shhd 1.5) new hd. 2.5 ± much
 the same as first

Calc. 50 .12 1.03 1.47 2.1 3.0
 found 1.5 3.0

455

3 eggs laid separately on the very young
 shoot of *Populus balsamifera*, K. June 25
 O with irregular apex, translucent
 white, diameter .6 mm. Inters. 2 in
 single broad low ribs radiating
 from the minute crater like nucleus
 each soon divide into two and
 continue down the side, 28 in number
 connected by transverse lines much
 slighter than the ribs which have
 shallow hollows, elongated later
 ventrally and by the narrow
 ends of the ribs. Anterior edge all
 rounded, slightly flaring

Hatched June 28 Little loosely noc-
 tuid, 1st, c. the the feet black.

Body whitish, leg plates tubercles
 and anal plate blackish, setae
 distinct, dark. Tubercles arranged
 from large nearly black areas
 (vi absent) feet all present about

It is on 12 from a distinct square



alike. 12 enlarged dorsally

July 4 Body pale greenish

12 a little enlarged feet

and apparently all alike

Wings very large black

with fine setae normal

vi present. C-10, the feet

and legs black, faint indication

of whitish sd and stig lines. Hd

black except a greenish patch at side

of each lobe and labrum. W. 9 mm

Molt July 8 Head shiny green; w. 1.5 ±

Body green, tubercles black large but

sd white shade yellow between

ad-d and lateral line. Spine

black ringed. a broad white 5-3 line

Molt July 13 Htestaceous brownish with

black pointed tubercles & eyes or connected

tub. 1 black band & black d. w. 3 mm ±

Body whitish green with broad stig rusty

orange band. Feet, tubercles large black

and body entire with sd & lat. whitish

lines, or all but 4 pale line filled in

with black (desc. not full body cover point)

then a red p. blotch cut by black line

shading down (dead)

456

July 10 1900

Eggs laid by *Euphonia mendica* night

of June 25-6. Same place, N.Y. 1894

suspended in a slender webbed

fine which runs from one object to

another so that the egg hangs

free in the air, elliptical, flattened

slightly on two opposite sides but

not so much as usual. Shiny

shiny pale yellowish straw color

like ring of spots: .8 x .6 x .5 mm

Under the reticulation are repre-

sented only by rather narrow shallow

dents, just indicated and only enough

to give shadows. The whole surface

is however finely but distinctly

shaped the both flattened

element all quite regular, rounded

The suspending fibre merely adheres

to the egg, = sticky secretion of oviduct?

Egg very delicate, smash easily

color changes to pinkish yellow

Hatched July 3 very long, slender and
 looping with great rapidity. When
 disturbed suddenly curl up in an
 irregular S shape **S** and keep still
 for some time, also feed on 10 and 13
 only, segments annulate but not



very regular setae
 short stiff glandular
 dark brown black
 tubercles. Head
 blackish, body
 rounded yellowish

white, rather translucent.

(Refused all food* and died)* leaves

556A with similar eggs in abundance laid on
 cherry tree in a pasture. Jefferson Highlands, N.H., June 30 1895
 also on elder with under edge of cortex and in hick hole on maple.
 Hatched July 6. Refused food. Lichens, moss, grass flowers
 and living insects (on daisies). Sp. of all died (July 20
 not found in dish)

July 13 Ad. 2mm - all white with greenish
 Here long white pencils black on 5, 7, 12 a
 few black hairs from 1 & 11 whole length about
 four pencil **457**

Acronycta like americana on poplar
 (Grandidentata) K.V. June 26 1894

Whitish, Hd. thorax with shiny
 black. Body covered with long
 light yellow hair with 5 dorsal
 long black pencils from 5, 7, 8, 12
 short stiff glandular Palpi & labrum white; a few short hairs.

Red sided white, brownish on 5 & 6
 black small, cancellous, but can
 be distinguished. Hair the 2d from
 waist and also alike, very long single
 pale yellow, not branching. Black
 pencil from 1, composed of 2 pieces slightly
 crossing. Venter shaded brownish. Leg

plates partly black. Spiracles running
 black rimmed. legs 3 & 4 (1) waist, (2)
 waist, (3) with trace of a white one foot
 to it stig, (4) waist 3-5 another on 1.
 Volcanifera

W. X. from June 29 1894 Crown of oak
 and wood. Hd from corn 4.0 mm
 Imago July 30, 1894 Cat. no 11031

458 = 227

Inside larva stage I in a little house on willow of a piece cut out of a leaf except ant. a small house and fastened over with strands. Hd slightly undulate black with white setae. Body pale

yellowish with faint green tinge, with shiny, setae white with enlarged tips, as illustrated, vi absent, no secondary ones (June 26 1894) Molt June 27 Saps about 5-6 mm. thickly covered with little setae with ball tips like those of stage I all alike apparently, obscurely spotted meso-entirely, same on hd but slender shaft. Hd undulate, black.

whitish not yellow-green like 443 and of this abnormal shape

459

Little blackish looping insect feeding on apple K.V. June 27 1894 joints 3-6 large out of proportion 7-13 small as short legs black joint. 2 pairs of and feet small, anal pair flat, slightly divergent. Ventrals whitish with faint green tinge, covered with white dots and an indistinct white sd line tubercles normal for rivetand iv str. post v, vi s-v, a few setae on legs; setae short brown, tub. white forming the dots with a few other supplementary dots without setae.

Molted 1st time and feet, thickened 3-4 small post. Leaf green thickly covered with distinct rather large white dots set flat on back of leaf. Hd same as body but less green, ash red 1.8 feet magalike. Spiracles brown ringed

460 = 257

Halicidota maculata on *Prunus* at

Keene Valley, N.Y. June 27, 1894. Stage I. Hd, abd, anal pl., thor feet and setae black,

tubercle area black + white yellow like body except iii blackish ish. Body white

Setae normal, except that iii bears two setae and its area is confluent with iv

(vi absent). Width head .5 mm. (sh hd. 4)

Stage II. Warts all with many hairs, normal iii + iv, many, haired, vi present 2-v, large; many hairs on lip plate

Hd shiny black; (sh hd. 55) w. .7 ± mm. 2 retraced abd small. Body pale yellow, warts black, hair scant, not concealing body though some long white ones overhang hd. Black & white mixed the black mostly from 5 & 12, i & ii



(sh hd. 8)

Molt June 29 Hd black. Body yellow hair quite thick but scarcely concealing body. white, but on i and iii on 5, iii on 11 and on 12 very black. Long white hairs at both ends. Looks strongly like next.

tubercle area black + white yellow like body except iii blackish ish. Body white

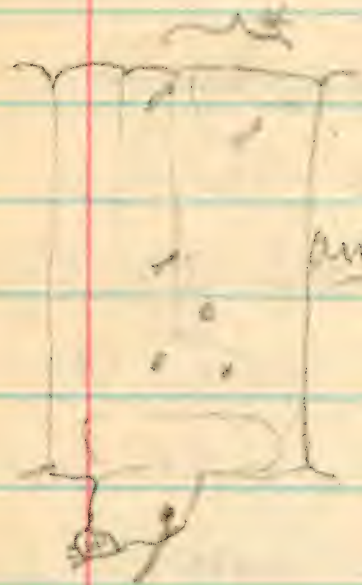
Molt July 4. Exactly the same. Hd 1, 2 + Hair same but longer and more abundant (see 257 for last three stages)

Molt July 13 Hd 2 - Same but with the black dorsal spots all present (see BB 257)

Molt July 21 Body ends slightly black & d. warts 4 on number.

Molt July 28 (sh hd 2.4) new hd 2.8 to molt Aug 8

461



Leimaster disciphora on
Populus tremuloides, K.V.

24 June 28, 1894; on perch

Stage I Larva minute
with chem tips, no
secondary ones. i ant,

below ii post; 3 supra stig. post; iv and v

5-v, nearly in line, is a tuft highest.

(vi absent) a single spine on base of leg

[*unfractured much ant. can't detect

in the segments. i and ii alternate

but which is lower not determined]

Stage II Roughly tubercular, iii, iv and v

apparently represented by multi-tu-

bucular warts, which seems to represent

i is smaller, ant. and above ii, many

secondary tubercles, not especially

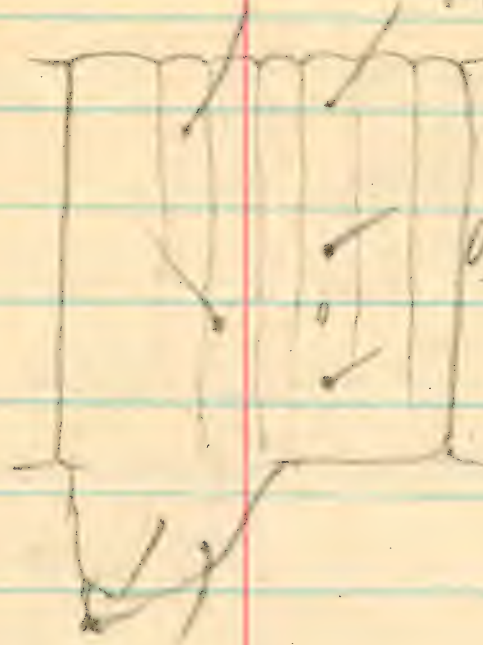
in a transverse row near front edge of

segment. Slight sd line on i and ii

apparently represent second pair of sd tub.

a slight one on 12 represent ii.

462



newly hatched
geometrid on

Viburnum lentago.

Kear Valley, N.Y.,

June 28, 1894.

Setae normal, (vi

absent) vii consist

of 2 setae, 1 below v the other rather

widely separated and and its viii

which is near medio-ventral line

On 12 (fig) vi is plainly seen to be absent

as vii. There occurs normally on the leg

Larva colorless; legs as in mature

egg Elliptical, flattened on a little

concave on two sides, nearly hexag-

onally reticulate. Size .7 x .5 x .3 mm

moth on alder July 12

463 = 414

Like *Acronycta* a white-bellied, 5 spot
June 19 1894, Keene Valley, N.Y.
Cottages whitish foot shiny green
hair from roots, long silky
white mixed with a few black
ones from i on 3, 5, 7 and 12. Hd
pale-brown, whitish, eye black, mouth
brown, w. 5 to 6 mm (7)

July 2 Hd shiny black with 2
concolor bands close to clippers and
connected above it by a cross bar.
a white mark ^{on the vertex} above each clipper
greenish centrally, mouth postpale
Hair long, curved, soft, white with
long distinct black pencil from
5, 7 and 12 on 1. Ventrals concolorous
dorsal whitish, a slight irregular
black and marking (12)

July 7 Head entirely black.
concolorous *actopicta* with the
description of 414 (9-v) except

Life 446 L. an egg like 476 A and all
whitish. Stage whitish dark, a seta on leg.
July 21 Hd like stage 11 Hd .6 ± 100 like stage 11
in color of body which is only

partly black being spotted and
streaked with yellow esp. subtip.
Hairs 2 mm ± Primary hair from dis-
tinct pale roots, it stig. post. v and
vi small, has long barbed
secondary hair shorter and finer than
primary, arising from the skin
most numerous dorsally. Phae

all white except the black pencils,
2^d dorsal, shading to fleshy brown
in the back. v and vi scarcely to
be distinguished from the 2^d hair. (13)

July 12 Same body black, now
black in incisions. 2^d hair abundant
black pencils broad. 1st hair still pale
radiating from roots. Hd 2.5 ±
The appearance of bands of hair is
highlighted by the pale color of the
center of segments where the hair is
contrasted with the black incisions,
venter black as well as the feet.

July 17 Late mature larva
 much of head 3 mm ±. Later brown
 all fleshly brown except ^{shy} S-V and
 when yellowish. Body all black,
 except in folds where the hair is very
 thick and then pale yellow. No
 continuous yellow SS band. (Indeed
 this is the *flavescens* color and
 only a variety of 414) a narrow
 faint d line of yellowish hair (3.6)

July 24 See 414. The periclit are
 relatively smaller and shorter than
 before. w. hd. 5 mm ±. Body all
 black. Brown d. hair extends down
 to near spiracles. S-V pale yellowish
 went down Aug. 5

Imago June 23 1895 *A. dactylina*

Cat. no. 11579

= *dactylina* by *de la Sagra* & *Ellis*

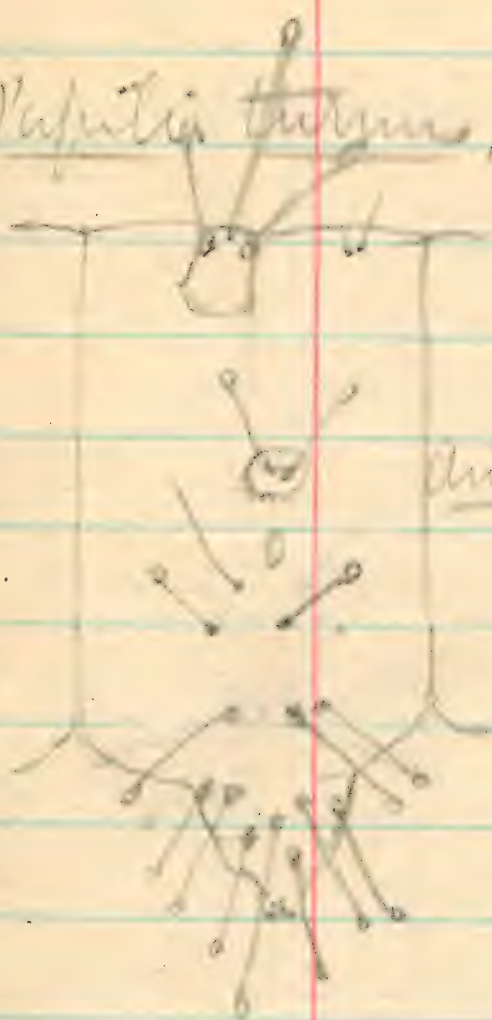
464

Vulpia thymus, hatched from eggs
 on hop, and ash
 Keene Valley, N.Y.

June 29, 1894

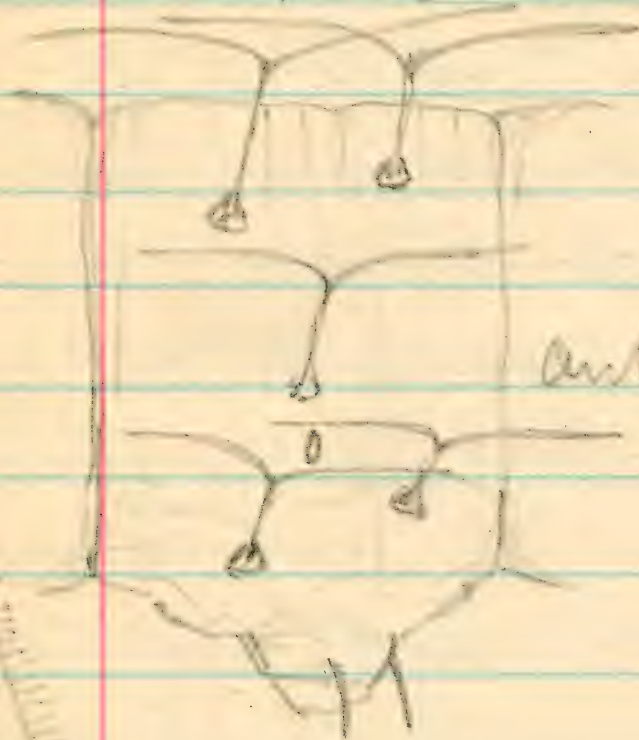
Ant. tubercles converted
 into warts, ii and
 iii with distinct
 bases, each with
 several glandular
 setae. iv and v in

line sub-stigmatal an extra long
 one above them, but this is absent
 on joint 12. vi presents two setae
 and a third short, iv 3 ant and
 1 post. many setae on leg.



(Zella 4)

H. thryse

$$1) = 23 = 465$$


Cent

Paloma Herrera

afternoon basket

from 1890

Plumaria

cents at

Keene Valley
N. H. 20

11-11-1930

194. Terra

white with greenish tint
centrally, brown black,

Subsidiary account, lay
fines to Peter, vi

absent. In 12 is.

down on the down

which has now ob-

primary tubercle in

at 11 hours, the

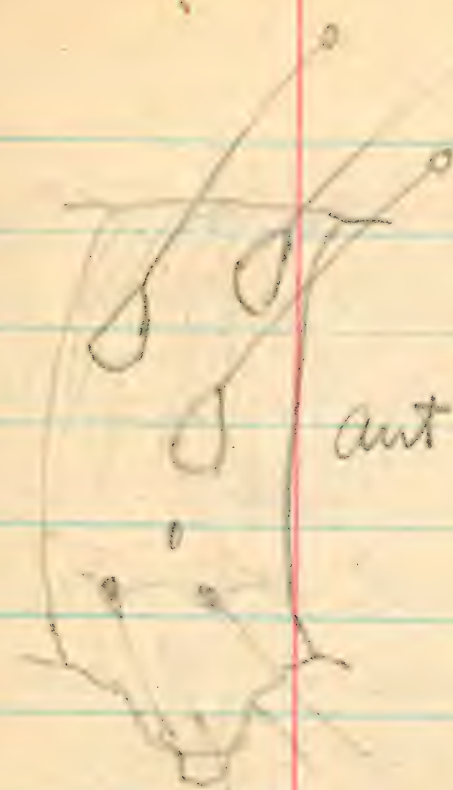
rest securing survival but difficult

to separate from those present on

13 ant, especially in 5-V region.

[illegible]

1875



Ant

466

Решение в столбик

from the hotel garden

Keene Valley, N. H.

Hatched July 1 1898

i, ii, iii with thread

Waxo, above my
the ...

kleiner mit glatten
Kanten

type. iv, v in line, connected by

a slight fold, distinct, the type

great faint, glandular (re-absorb)

One on outside of foot and one in jewel,

not glandular. IV is much shorter
than I + II + III + V.

them & and through incident, the

then from above to see with
a straight line the 1st and 2nd

differs very from the natural aspect,
though I will not find it

for a family of curves, then

467

Hyphaltrich caryocera on willow

Keene Valley, N. M.

Hatching July 2 1894

Setae single, with
pointed ends and
barbed, iv below
the spiracle and
a little posterior,
vi present, rather

small, all normal. Head, feet,
tubercles, setae, c-sh and anal
plate all black; body yellowish.



Ant.

468

*Spilozoma nigricans*from eggs of mouth
nesting on willow

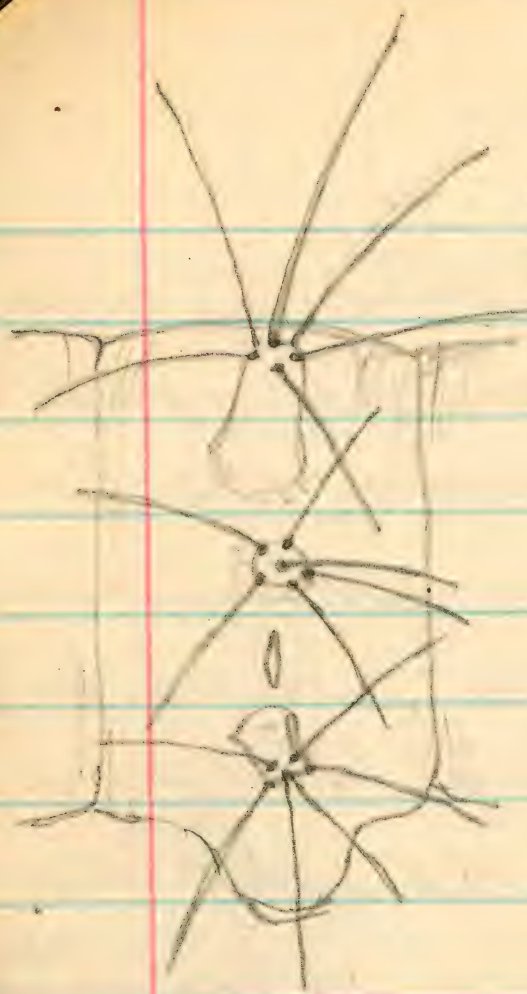
Ant. near fork, hatched
July 3 1894 Keene
Valley N. M.

Tubercles large,
blackish, setae
pointed barbed
ii and iii black,

i, iv and v white (vi absent.)

Head and leg plates scarcely colored
Body brown yellowish, no marks





469

Teleda polyphemus
on white Birch at
Keene Valley, N.Y.;
hatched July 3, 1894
warts greenish and
apparently the full
structure of the
mature larva (of

which take note). No unpaired dorsals;
i-i on 12 closer than on other segments
then bases united, but not apex remote
on 13, a pair on anal plate (13 post)
Only 3 rows anywhere except 3 on 4
where there are 4 (2 S-V); on 13 only
two and on 13 post only the one.

July 31

Three tubercles, 4 on 3 & 4

it on 12, 2 on 13 and on
slight ^{hair} on anal plate, a
number of 2 hair spots

Ant dorsally and S-V. On 3 on
2 on S-V lacking. Tubercles
coral red (D.C.), 10 days.

470

^{typical case}
Egg of gray Crambus laid July 3, 1894, Keene
Valley, N.Y. Shape for oval, a little
truncate at the two small ends with
about 12 sharp distinct longitudinal
ridges like *Notulidae*, crossed by
a great number of fine transverse
striae not reticulated into cells
and scarcely flexing the apical set-
line of the ridges at all. Slightly
white, faintly greenish. .5 x .3 mm
Hatched July 17 i, ii, iii normal, ii
being rather



small. iv and
v above each other
the lower small
both on S-V ridge
no more seen
except a distinct
one on each side
of post

(*Crambus mutabilis*)

Lophodonta ferruginea

12
1894

471

usually
Egg singly on upper side near middle of
leaf leaf of white birch, K.V. July 4 1894
Round with flat base, somewhat
flattened $\frac{2}{3}$ spherical. Diam 1 mm
height .6 mm, slightly shiny green
sky blue. greenish. Reticu-
lation near base rounded, becoming

irregular becoming small and indistinct
at micropyle region. On the sides
the reticulation edges of the cells become
broad, flat almost round,

reducing the depression to shallow pits
Larva hatched and ate upper side of
leaf a little way off the midrib at
the apex of leaf. In stage II ^{makes} a
long perch of the ~~apex~~ of midrib
and ate the whole leaf like verruca.

Stage II Hd slightly lobed greenish
a smoky black shade on the
the unknown and a narrow
smoky band across the apex
of the lateral angle

Colo	.59	.95	1.54	2.48	4.0 (v. 64)
Wid	.6	1.0	1.6	2.5 ±	4 ±

a few setae w. 1 mm. Body colored
smooth feet normal all short. The
foot & leg plate black except anal
setae ^{dark} and fine ^{dark} lines
on the sides. very inconspicuous.
normal. vi present. Red, g. with

Egg on white birch just hatched June 22 1895. Greenish
white, scarcely shiny, a little more greenish
at apex. Reticulation narrow rather reg-
ular, hexagonal but faint and low,
all defined 1 mm. height .7. Shape very
near $\frac{2}{3}$ spherical, a little too much thickened
under at base.

Hatched July 1. Just like 471 g.v.
July 12 In stage II Like 471 II

Spindle to lateral line (the feet
black except at joint) very dense
and dense, sd, lat and stigmatal
marked whitish lines. All feet
all green the claspers faint

Egg on white birch forest June 22 1895. Greenish
white, somewhat shiny, a little more greenish
at apex. Reticulation narrow rather reg-
ular, hexagonal but faint and low.
All defined 1 mm. height .7. Shape very
nearly $\frac{2}{3}$ spherical, a little too much tucked
under at base.

Hatched July 1. Just like 471 g.v.

July 12 In stage II Like 471 II



Dear

West 99 St

Manhattan City
N. H.

Lophodonta peruviana

12
1894

471

usually
egg singly on upper side near middle of
large leaf of white birch, K.V. July 8 1894
Round with flat base, somewhat
flattened 2/3 spherical. Diam 1 mm
height .6 mm, slightly shiny, greenish
slaty blue. ^{where} greenish. Reti-
culation near base rounded, scarcely
irregular becoming small and indistinct
at microphyte region. On the sides
the reticulation edges of the cells become
broad, flat almost ^{like} the
underlying the depression to shallow pits
large reticulation and eat upper side of
leaf a little way off the midrib at
the apex of leaf. In stage II ^{makes} a
long perch of the ~~apex~~ of midrib
and eat the whole leaf like verruca.
Stage II Hd slightly lobed greenish
a smoky black shade over the
side including ^{apex} and a narrow
smoky band over the apex
of the lateral angle

Calc	.59	.95	1.54	2.48	4.0 (n. 62)
Wm	.6	1.0	1.6	2.5 ±	4 ±

a few setae w. 1 mm ± Body color
smooth, feet normal ^{as above} the
feet a by plate black except anal
setae ^{dark} and fine ^{dark}
black ^{dark} very inconspicuous.
normal. ^{as above} Body green with
very faint indicated ^{as above} ^{as above}
lat, and super. ^{as above} whitish
lines. Spiracles pale. No glandulae
mouth ^{as above} Hd round, flat before and
held out flat. Leaf green - a smoky
black band runs behind ocelli
back and up, tapering and ends at
side of head; mouth reddish brown.
Body as before but the fine dark
setae have in tubercles. Color head
green. On 2-3 a yellowish line edged
above with red running from below
spiracle to lateral line. The feet
black except at joints very obscure
add dorsal, sd, lat, and stigmatal.
marked whitish lines. All feet
all green the claspers faint

The pupa Hb 4mm \pm held out flat
rounded. broad and flattened before
light green, a white line each side Δ
and another from palpi concave shape
to vertex of each lobe. a band behind
ocelli runs back to end of 3rd spiracle
and curving up post; smoky purplish
red, fading to yellowish on its lower side
Body soft yellowish leaf green, tapering
post, full plump, cylindrical. A
broad yellowish white ad. line, the
space between filled is with reddish
m13; faint trace of broken sd, and
2 or 3 round yellow dots head, and
superstig. Dorsum faintly white
shaded, s-v region clear soft green
the feet reddish, black at tip. Abd.
concolorous with body. Setae extremely
minute except on legs. Claspers
dirty brownish. Length about 30 mm

Imago Aug 15 1894 Cat no 11040
Zophodonta ferruginea ♂

472

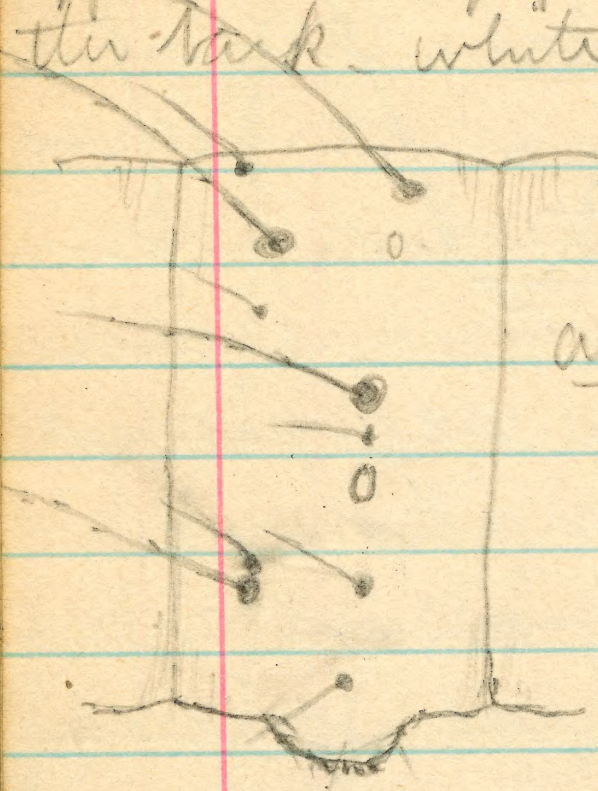
Egg and larvae of Fenestica ferruginea
eating woolly lice on alder July 4/94
Keene Valley, N.Y. Mature elongate
like Chrysomus but retraced, segments
deep and strong; s-v ridge prominent,
larvae flattened, evenly rounded
Hairs arise sparsely all over the
body but indistinct, but especially
from 2d, lat and s-s areas
the former of which are gathered
together into rather distinct warts
Hairs short white, barbed, not
obscuring the body at all. Color a
whitish green with a broad white
ad band, and tubercle ① pale
orange bordered below with blackish
D. region whitish with dark narrow
broken dorsal line a faint white stig.
line. Down from lice adheres to it
warts appear to represent roughly
i, ii, iii and iv+v.
Little larva all grayish (see alcohol)

egg laid singly under the lice on
the back. white (see shell in alcohol)

Hatched July 12 1894
white. Hd. thro.

ant feet, c-sh, anal
plate and
tubercles black
setae brownish
barbed, the
primary ones

long; secondary much shorter
with smaller tubercles. A
curious little pore resembling a
spiracle situated sd. below
tubercle i.



473

Two eggs on back of ^{white} birch, pale green
shiny ^{ripe then} hemispherical with a slight
elevated ring around micropyle;
base flat; w. 1 mm, height .65 mm
Reticulation flat and narrow the
cells rather round, become small
at micropyle the ring whitish
[vacuolated?] [use higher power] July 4 1894
(died)

